

ABSTRACT

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A digital broadcast receiving apparatus performing reverse processing for signal processing performed at a broadcast side on a received signal of a digital terrestrial broadcast and capable of correctly reproducing information source data contained in the broadcast signals is provided.

An initial value in a random sequence generation circuit is set in accordance with numbers of a channel and sub channel to be received, a PRBS is generated by a random sequence generation circuit 12 based on this, a pilot signal error detection circuit 9 detects errors of carriers of the pilot signals CP and SP demultiplexed by a signal demultiplexing circuit 7 by using the PRBS, distortion of an information transmission use carrier occurring in a channel is corrected by an equalizing circuit 8 in accordance with that, and a transmission control signal decoding circuit 10 detects a reference phase of the carrier of a transmission control signal TMCC by using the PRBS, decodes the TMCC in accordance with that, supplies the same to a control circuit 11 to generate a required control signal, and thereby controls reproduction of the information source data.